Public Works (1906) Department.

G.O., No. 372 } I
373 }

DATED 3-4-1906.

90 copies of G.O.
3 copies of Endt. with
22/1 docket at the back
for the G. of I.
30 copies of Endt. forwards.
4/4/06.

[Despatch Abstract.]

Marudhur tank, Periyar Project

An estimate, amounting to Rs 115-99, for improvements to ——, approved, and ordered to be forwarded to the G of I for sanction.

Marudhur tank, Periyar Project

Forwarding for sanction an estimate, amounting to Rs 115-99, for improvements to —— together with a copy of the Pros. approving the same.

P. W. 36.
2,000—7-7-06.

Indexed. 3/4

[illegible]

[illegible] 2/4

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

IRRIGATION.
ACCOUNT.

Government of Madras.

PUBLIC WORKS DEPARTMENT.

Recd.	} 1906.	*Enclosures*	
Regd.		*Spare copies*	

G.O., Nos. 372, 373 I., 3rd April 1906.

Marudhur tank, Periyar project

Forwarding for sanction an estimate, amounting to Rs. 11,599, for improvements to —, together with a copy of the Proceedings approving the same.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers :—

I

Letter—from C. A. SMITH, Esq., Superintending Engineer, VI Circle.
To—the Chief Engineer for Irrigation.
Dated—Trichinopoly, the 13th January 1906.
No.—37 C.E.

I have the honour to forward, for your approval and sanction, an estimate, amounting to Rs. 10,600, for improvements to No. 6, Marudhur tank, a Periyár-affected work, situated at the tail end of the 10th Branch channel, Melur taluk.

2. The 10th Branch channel commanding an area of 15,215 acres empties itself into this tank; it has two principal offtakes, viz., Thiruvadur and Chunnamboor channels; the latter, however, is supplied indirectly through the Marudhur tank by means of a head sluice in the tank bund. The Executive Engineer reports that the tank gets filled in a short time during ordinary rains, and continues to surplus for some time, and the Executive Engineer proposes to utilize this surplus which goes to waste for irrigation purposes, and with this object in view he proposes to raise the F.T,L. of the tank by 2 feet. By this increased storage not only will the ultimate area be extended by about 45 acres, but considerable assistance will be given to the irrigation of the excluded area of lands dealt with in G.O. (Confidential) No. 1420, dated 31st December 1904. I forward also a copy of the Executive Engineer's letter, paragraph 1, (attached to the estimate) giving further information on the question of increased storage capacity of the tank.

3. The tank bund is also proposed to be raised and strengthened for which an estimate amounting to Rs. 3,340 has also been received which I herewith forward to you to be dealt with the improvement estimate.

4. The work is required for full development of the project and it may be expected to be completed by the end of March 1908. The Executive Engineer's report is attached to the estimate and necessary plans forwarded.

ENCLOSURES.

Report to accompany the estimate for repairs and improvements No. 6, Marudhur tank, Melur taluk.

Amount of estimate—	RS.
Improvements	10.600
Repairs	3.340
Total ...	13.940

General.—The tank is one of those proposed to be maintained as per G.O., No. 176 I., dated 20th February 1897, and it is also included in the revised list submitted to the Superintending Engineer, VI Circle, with this office No. 112 S.E., dated 24th February 1902.

Source of supply.—The ayacut under the 10th Branch channel which tails into Marudhur tank is 15,215 acres.

	ACRES.
10th Branch channel, Marudhur Kanmoy ..	4,781
Thiruvadur offtake	2,475
Chunambur offtake	7,959
Total B-10 ..	15,215

The maximum Periyár supply that could be spared for the channel in the irrigation season is 150 cusecs of which only 35 cusecs will be available for Chunnamboor offtake which takes off from a head sluice in Marudhur tank. This

supply is quite inadequate for the ayacut under the tank and in consequence there is considerable cry for water in the area at all times being the tail end of the system. A large portion of the catchment above the tank has, since the advent of Periyár, been brought under cultivation and during ordinary rains, the tank gets filled in a short time and begins to surplus. The surplus continues for a considerable time after the rains cease. To make the best use of this surplus water which at present goes to waste, it is proposed to raise the present F.T.L. of the tank by 2 feet and thereby increase the storage capacity from 20 millions to 37 millions of cubic feet. With this increased storage and with the constant supply which can be had from Periyár channels, arrangements can easily be made to send down an adequate supply to the tail end. Without the proposed increased storage capacity of the tank, it will not be quite possible to make the best use of the drainage water entering the tank and now going to waste as surplus.

Surplus arrangement.—The surplus is at present disposed of over the existing weir at the left flank. It is now proposed to improve and extend the same to make it capable of discharging the maximum quantity estimated as likely to enter the tank.

Sluices.—All the three sluices in the tank are in good order requiring neither repairs nor improvements.

Submergence.—Provision has been made for acquiring 27·20 acres of patta land which will be submerged at the proposed F.T.L and for demarcating the lands to be acquired. The value of land has been fixed with reference to Code paragraph 950 by the Collector of Madura. The average depth of water that would stand over the fields would be about 2 feet.

Bund.—The bund will be raised and strengthened by raising it to a height of 5 feet above M.W.L. and with a top width of 6 feet and side slopes of 1½ to 1 and 2 to 1 in front and rear, respectively. It is also proposed to revet the bund wherever found absolutely necessary and where the bund will be subject to wave action. The top of revetment will be 1′ above M.W.L. as usual. The height and section of the bund now proposed is necessary in consideration of the bad nature of the soil with which the bund is to be formed.

A. V. RAMALINGA AIYAR,
Executive Engineer, Madura Division.

Extract—from a letter from M.R.Ry. A. V. RAMALINGA AIYAR Avargal, B.A., B.C.E., Executive Engineer, Madura Division.
To—the Superintending Engineer, VI Circle.
Dated—the 30th September 1905.
No.—834 S.E.

With reference to your No. 2989, dated 5th August 1905, I have the honour to state that the total area commanded by the Chunnamboor offtake is 7,959 acres, which includes the area 1,801 acres excluded in the villages of Sengottai, Punjutti, Keeranur and Tuvarangulam from the Periyár ayacut as a temporary measure under G.O., No. 1420 (Confidential), dated 31st December 1904, and also inam lands 2,043 acres about which no mention is made in the confidential Government order quoted above. This excluded area will, as reported already, be brought under the scope of the project when the improved supply is available after the completion of the regulator at the right bank escape at Periyár. The improvements now proposed, viz., increase in the storage capacity of the tank, will greatly supplement the irrigation of the excluded area by utilising the drainage water which now runs to waste as stated in the report attached to the estimate.

II

Note by the Chief Engineer for Irrigation.

The Superintending Engineer, VI Circle, submits two estimates, amounting to Rs. 10,600 and Rs. 3.340, respectively, for improving and repairing the Marudhur tank supplied by the 10th Branch channel, Periyár project. It is stated that the tank being situated at the tail end of the branch channel, the lands under it do not get an adequate supply and that during the rainy season its surplus runs to waste. The estimate for improvements therefore provides for raising the present F.T.L. of the tank by 2 feet in order to increase its storage capacity from 20 to 37 millions cubic feet. It is also proposed to improve and extend the existing weir in the left flank so as to enable it to discharge the calculated maximum quantity likely to enter the tank. It is reported that by these improvements not only will the ultimate ayacut of the tank be extended by 45 acres but also the increased storage will greatly improve the supply to the additional area under the Chunnamboor offtake, which will be brought under the Periyár project after the completion of the regulator in the right bank escape now in progress. The estimate for improvements may be approved and forwarded to the Government of India for sanction.

2. The work is classed as "Unremunerative" and will probably be completed by the 31st March 1908.

3. The estimate for repairing the tank is approved and will be returned to the Superintending Engineer to be sanctioned by him under "Maintenance and Repairs".

F. J. Wilson,
Chief Engineer for Irrigation.

27th March 1906.

Order—No. 372 I., dated 3rd April 1906.

The following estimate is approved :—

Imperial.
Capital expenditure not charged to Revenue.
49. Irrigation.
Periyár Project.
Open Capital Account.
I. Works.
3. Distributaries.
Unremunerative Work.
Improvements to Marudhur tank.

	RS.	RS.
B. Land—		
Compensation for land	6,257	6,257
C. Works—		
Improving the weir at the left flank	590	590
L. Earthwork—		
Providing revetment to the tank	3,733	3,733
O. Miscellaneous—		
Demarcation stones	20	20
I. Works		10,600
II. Establishment ...		999
Total ...		11,599

2. Ordered that a copy of these Proceedings together with the plans and estimates for improvements to the Marudhur tank, Periyár project, be forwarded to the Government of India with a request that sanction thereto may be accorded.

[Here enter No. 373 I., dated 3rd April 1906.]

(True Extract.)

F. J. Wilson,
Joint Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
,, Superintending Engineer, VI Circle, with plans and estimates for repairing the tank.
,, Examiner, Public Works Accounts.

Endorsement—No. 373 I., dated 3rd April 1906.

Forwarded.

(By order.)

F. J. Wilson,
Joint Secretary to Government,
Irrigation Branch.

1,000—22-8-3.

CURRENT FILE.

ESTIMATE FORM. – Abstract – Classified.

Sub-head.	Names of Works.	Amount of Estimate for individual Works.	Total of Sub-heads.	Total for each Canal or Distributary.	Total of each Main head.	Remarks.
1	2	3	4	5	6	7
	Imperial Irrigation.					
	49 Capital expenditure not charged against Revenue					
	1 Works					
	3. Distributaries.					
	Improvements to No 6 Marudur Tank.					
B. Land.	Compensation for land.	6257.				
			6257.			
C. Works.	1 Improving the weir at the left flank.	590 ~~500~~				
			590			
~~Earthwork~~	2. Providing revetment ~~Improvements~~ to the tank bund.	3733 ~~3463~~ ~~3,373~~	3733 ~~4323~~ ~~3,933~~			
~~Miscellaneous~~ G. Miscellaneous	Demarcation stones	20				
			20.			
	Total 1 works.			10,600 ~~210~~		
	~~II Establishment~~			~~2305~~	~~12715~~	
	~~Total of Estimate Rs~~				~~12,515~~	

MNS 23/6/05

STATION, ___

Dated ___ 190 .

A V Rinker (?)
Executive Engineer.
Madura Division.

5,000—12-12-01.

(E. No. 126.)

—————— CIRCLE.

DIVISION—

DISTRICT—

ESTIMATE FORM.—Abstract—Classified.

To accompany the Detailed Estimate No.

of 190 -190 for *

* Here enter the Name and Description of work in full.

1,000—22-3-05.

NOTES.

PUBLIC WORKS DEPARTMENT.

Irrigation Branch.

C. No. 317.
18/1/06

D. E. I.

E. I. Orders are requested if the estimate may be checked for sanction.

LR
20/1/06

It seems a useful project
[signature]
22/1/06

Check for Sanction
[signature]
22/1/06

CEI

Ins 22/1/06

[E. I. Form No. 42—600—23-8-04.]

3/

Public Works Department,

Irrigation Branch.

Current No. 317 of 1906

Letter No. 37

Dated 13/1/06

From The S.E. 6th circle (Mr C.A. Smith)

NOTE by Technical Section.

Name of work. Improving Marudur tank Periyar affected.

Amount of Estimate Rs. Improving Rs. 10600
Repairs Rs. 3340
13940

It is proposed to raise the F.T.L of the Marudur tank by 2 ft and to utilize the storage for irrigation purposes. Capacity of the Tank at the present F.T.L is 20 mills cft; at the proposed F.T.L = 37 mills cft. The additional area proposed to be brought under the Periyar project in the locality after the Completion of the regulator at the right bank sluice = 3844 acres. The increased storage by the proposed improvements is to supplement the supply to the above area by utilizing the drainage water which runs waste. The Estimate provides for.

(1)	Raising bund to 5 ft above M.W.L with 6 ft. width and 2 to 1 & 2½ to 1 slopes	3340
(2)	Revetting bund to 1 ft above M.W.L	3733
(3)	Extending existing weir	590
(4)	Compensation for land to be acquired for water spread	6257
(5)	Demarcation	20
		13940

The Estimates have been checked.

[illegible] 26.1.06

[illegible] 24/1/06.

u

C.R. No. 317 -

D.I

A draft order on the estimate for improving and repairing the Marudhur Tank, Periyar project, is submitted below for approval. The Supg: Engr: states that by the execution of the proposed improvements, not only will the ultimate area under the tank be benefited but that the work will also greatly supplement the supply to the additional area proposed to be brought under the Periyar project after the construction of the regulator in the Periyar right bank escape. The Supg: Engr: classifies the work as "Remunerative" but he does not state what revenue may be expected from the proposed improvements. The Supg: Engr:'s classification has been adopted in the draft order. But it is submitted that before the submission of the draft to Government, the Supg: Engr: may be requested to furnish particulars of the revenue anticipated, as it is likely that the Government of India may wish to have them when a copy of the G.O is forwarded to them for information.

vide comment below

LG
16-3-06

There is a line in the S. E's letter about the ultimate area being 45 acres which Mr Smith will explain in person. In the absence of an estimate of increased revenue the work must be sanctioned as unremunerative but required for full development of the Project. It is a good thing to have a big tank that conserve any surplus water in the channel at its tail end.

L. O

ZWAS

12/3/06

R.K.
~~This must be brought up again ~~forwarded~~ in a week's time~~
LR 12/3/06

S. E has now altered his letter. Este may be checked

ZWAS

14/3/06.

CEI

JSI

The estimate has already been checked. I think the classification will have to be altered.

Class as unremunerative & type the order

ZWAS

23/3/06

Mw 22/3/06

Typed copy subd. for initials

LR Mh 24.3.06

E. I. Form No. 1.

CURRENT No. 4044
PASSED ON BY
R. C.
R. C.
EF.
D. O.

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

A From the Supg. Engineer VI Circle, No.37 C.E. dated 18-1-06

Note by the Chief Engineer
for Irrigation

The Supg.Engineer, VI Circle, submits two estimates amounting to Rs. 10,600 and Rs.3,340 respectively for improving and repairing the Marudhur tank supplied by the 10th branch channel, Periyar project. It is stated that the tank being situated at the tail end of the branch channel, the lands under it do not get an adequate supply and that during the rainy season its surplus runs to waste. The estimate for improvements therefore provides for raising the present F.T.L. of the tank by 2 feet in order to increase its storage capacity from 20 to 37 millions c.ft. It is also proposed to improve and extend the existing weir in the left flank so as to enable it to discharge the calculated maximum quantity likely to enter the tank. It is reported that by these improvements not only will the ultimate ayacut of the tank be extended by 45 acres but also the increased storage will greatly improve the supply to the additional area under the Chunnamboor off take, which

Issue
30/3/06.

29.3.06

Please stamp plans and return ple
30/3

2

which will be brought under the Periyar project after the completion of the regulator in the right bank escape now in progress. The estimate for improvements may be approved and forwarded to the Govt. of India for sanction.

2. The work is classed as "Unremunerative" and will probably be completed by the 31st March 1908.

3. The estimate for repairing the tank is approved and will be returned to the Supg. Engineer to be sanctioned by him under "Maintenance and Repairs"

28.3.06.

Order No. 372 I. d. 3.6.1906

The following estimate is approved:-

Imperial

Capital expenditure not charged to revenue.

49 Irrigation.

Periyar Project

Open capital account

i Works

3 Distributaries

Unremunerative work

Improvements to Marudhur Tank

B Land		
Compensation for land	6,257	
		6,257
C Works		
Improving the weir at the the left flank----	590	
		590
L Earthwork		
Providing revetment to the tank--------	3,733	
		3,733
O Miscellaneous		
Demarcation stones-----	20	
		20
	I Works -	10,600
	II Establishment	999
	T O T A L----	11,599

4.

6P

2. Ordered that a copy of these proceedings together with the plans and estimates for improvements to the Marudhur tank, Periyar project be forwarded to the Govt, of India with a request that sanction thereto may be accorded

Endorsement No. 373 I. d 3-4-1906

Forwarded.

26/3/06

27/3/06

To the Chief Engr. for Irrgn. ✓ D 27/4
" Supg. Engr. VI Circle with plans & site preparing to tank ✓ D 30/4/06
" Examiner P.W. Accts ✓ D 27/4

24.3.06

3

780

8